

Mandibular Implant | Case Study

The Problem

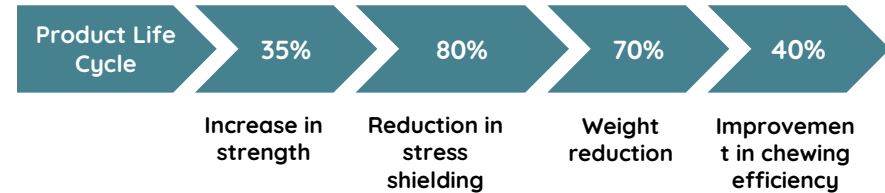
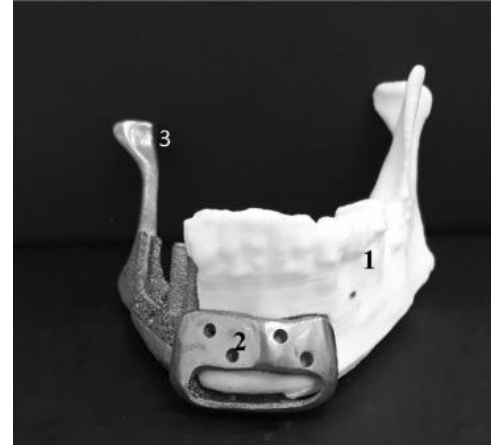
- Metal Fatigue & Fractures
- Stress Shielding
- Intraoperative Bending
- Denture Base Fractures

The Solution

Additively manufactured (3D-printed) mandibular implants using SS316L (surgical-grade stainless steel) offer a blend of high mechanical strength, patient-specific anatomical fitting, and cost-effectiveness

The Impact

- Lattice Structures
- Enhanced Biocompatibility
- Superior Load-Bearing Properties
- Reduced Stress Shielding



AM allows for the creation of intricate, trabecular-like lattice networks. These porous frameworks significantly lower the overall weight of the implant